Attorney Docket No. 8194-205

Hormely Explicit A

PATENT 2.14.02

2 , 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RELATIVE STRENGTHS OF TRAFFIC AND PILOT CHANNELS

In re: Bottomley Serial No.: 09/204,734 Filed: December 3, 1998 Group Art Unit: 2634 Examiner: C. Fan

DIGITAL RECEIVERS AND RECEIVING METHODS THAT SCALE FOR

**DURING SOFT HANDOFF** 

November 6, 2001

Commissioner for Patents Washington, DC 20231

RECEIVED

FEB 0 4 2002

**AMENDMENT** 

Technology Center 2600

Sir:

This Amendment is responsive to the Official Action of July 18, 2001.

Pursuant to the new rules for amendments under 37 C.F.R. §1.121, the specification and claims have been amended herein using the replacement paragraphs and rewritten claims format. The present amendment also includes a section entitled "VERSION WITH MARKINGS TO SHOW CHANGES MADE" attached hereto.

## In the Specification:

Please enter the amended paragraph at Page 8, lines 19-25 as follows:

Despreading is used to form despread values for the traffic channels for each base station signal, denoted  $x_T^g$ , where x indicates the base station signal and g is an index for the base stations. For optimal performance, the detection statistic z should be

$$z = K_d \hat{c} * x_T^d + K_e \hat{c} * x_T^e + K_f \hat{c} * x_T^f$$
 (5)

As shown in Equation (5), scale factors  $K_g$  are needed for optimal combining. However, if the approach described in Figures 2 and 3 is used, then the scale factors are not present, which can lead to suboptimal performance.

Cont